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Cosmetic for hair, skin, nails, lips, eyebrows or eyelashes contains sun protection agent and water-soluble/dispersible N-vinyl-amide or -lactam copolymer with tert.-butyl acrylate or -acrylamide and cationic units

Patent Assignee: BASF AG (BADI)

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Abstract (Basic): WO 200384484 A2

NOVELTY - Cosmetic contains sun protection agent(s) and water-soluble or -dispersible polymer(s) of mono-alpha,beta-ethylenically unsaturated monomers, comprising (a) 5-50 wt.% tert.-butyl (alkyl)acrylate(s) and/or N-tert.-butyl-(alkyl)acrylamide(s) (I), (b) 25-90 wt.% N-vinylamide(s) and/or N-vinylactam(s), (c) 0.5-30 wt.% monomer(s) with cationogenic and/or cationic group(s) and (d) 0-30 wt.% (alkyl)acrylate or (alkyl)acrylamide monomer(s) (II) or their salts.

DETAILED DESCRIPTION - Cosmetic contains sun protection agent(s) and water-soluble or -dispersible polymer(s) of mono-alpha,beta-ethylenically unsaturated monomers, comprising (a) 5-50 wt.% tert.-butyl (alkyl)acrylate(s) and/or N-tert.-butyl-(alkyl)acrylamide(s) of formula (I), (b) 25-90 wt.% N-vinylamide(s) and/or N-vinylactam(s), (c) 0.5-30 wt.% free radical polymerizable monomer(s) with cationogenic and/or cationic group(s) and (d) 0-30 wt.% (alkyl)acrylate or (alkyl)acrylamide monomer(s) of formula (II) or their salts:

R1, R3=H or 1-8C alkyl;

X1=O or NR2;

X2=O or NR5;

R2, R5=H, 1-8C alkyl or 5-8C cycloalkyl;

R4=H or linear 1-22 C alkyl.

USE - The composition is used in a process for fixing or styling hair, in the production of a cosmetic product, especially a hair cosmetic product, or for the skin, nails, lips, hair, eyebrows and eyelashes (all claimed).

ADVANTAGE - Existing cosmetics containing UV-A and UV-B filters are not entirely satisfactory, as the amount of sun protection agent remaining on the hair or skin is much too small and does not remain long enough to give the expected protection. The present composition is especially suitable for formulation as hair fixing and/or styling cosmetic that combines satisfactory filtration of sunlight with good cosmetic properties, has good solubility in cosmetic oils and gives stable emulsions. It is non-toxic, adheres well to skin and hair and has little intrinsic odor and color, satisfactory photostability and little allergenic potential.

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